

What is claimed is:

Sub 1  
1. A method for displaying a color image by reproducing a pixel color of an input image using three types of cells having different light colors, the method comprising the steps of:

5 using a display device including a display screen having parallel cell columns, cells of each cell column having the same light color, a light color of a cell column being different from that of the neighboring cell column, a cell position in the column direction of a cell column being shifted from that of the neighboring cell column among a set of the cell columns each having the same light color; and

10 switching a combination of cells having the same light color constituting a display line perpendicular to the column direction.

15 2. The method according to claim 1, wherein the switching of the combination of cells constituting a display line is performed for each field when the input image is displayed in an interlace format.

20 3. A method for displaying a color image by reproducing a pixel color of an input image using three types of cells having different light colors, the method comprising the steps of:

25 using a display device including a display screen having parallel cell columns, cells of each cell column having the same light color, a light color of a cell column being different from that of the neighboring cell column, a cell position in the column direction of a cell

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column being shifted from that of the neighboring cell column among a set of cell columns each having the same light color; and

determining luminance of each cell of the display  
5 screen by distributing a luminance value of each pixel of  
an input image to plural cells corresponding to the pixel  
or by integrating luminance values of plural pixels of the  
input image into a cell corresponding to the pixel in  
accordance with a cell position relationship [between an  
10 imaginary display screen having a cell arrangement  
corresponding to a pixel arrangement of the input image  
and the display screen.]

4. A method for displaying a color image by  
reproducing a pixel color of an input image using three  
15 types of cells having different light colors, the method  
comprising the steps of:

using a display device including a display screen  
having parallel cell columns, cells of each cell column  
having the same light color, a light color of a cell  
20 column being different from that of the neighboring cell  
column, a cell position in the column direction of a cell  
column being shifted from that of the neighboring cell  
column among a set of cell columns each having the same  
light color; and

25 lighting two neighboring cells in at least one cell  
column out of a set of cell columns each having the same  
light color when displaying a display line perpendicular  
to the column direction.

5. The method according to claim 4, wherein two  
30 neighboring cells are lighted in all the plural cell

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columns having the same light color corresponding to the display line.

6. The method according to claim 4, wherein two neighboring cells are lighted in every other cell columns having the same light color, and one cell is lighted in the remaining cell columns.

7. The method according to claim 4, wherein luminance of each cell is determined by distributing a luminance value of a pixel of the input image to two neighboring cells equally when lighting the two cells in the cell column.

8. The method according to claim 4, wherein the display device is a plasma display panel.

9. A display device comprising:  
a display device including a display screen having parallel cell columns, cells of each cell column having the same light color, a light color of a cell column being different from that of the neighboring cell column, a cell position in the column direction of a cell column being shifted from that of the neighboring cell column among a set of the cell columns each having the same light color; and

a driving circuit for lighting two neighboring cells in at least one cell column having the same light color when displaying a display line perpendicular to the column direction.

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